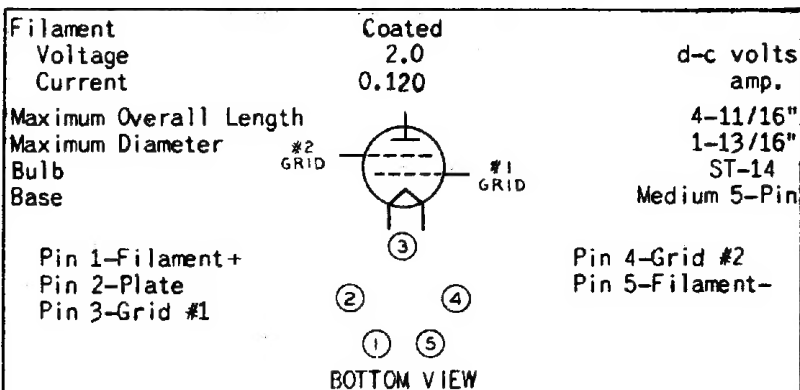




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RCA-49 DUAL-GRID POWER AMPLIFIER



CLASS B POWER AMPLIFIER

Grids #1 & #2 connected together at socket

| | | |
|---------------------------------|----------|------------------|
| Plate Voltage | 180 max. | volts |
| Peak Plate Current | 50 max. | ma. |
| Typical Operation (2 tubes): | | |
| Filament | 2.0 | 2.0 volts |
| Plate | 135 | 180 volts |
| Grid (#1 & #2 tied together) | 0 | 0 volts |
| Zero-Sig. Plate Cur. (per tube) | 1.3 | 2 ma. |
| Load Resistance (per tube) | 2000 | 3000 ohms |
| Effective Load Resistance | | |
| (plate to plate) | 8000 | 12000 ohms |
| Power Output (2 tubes) | 2.3 | 3.5 approx.watts |

CLASS A AMPLIFIER

Grid #2 connected to plate at socket

Operating Conditions and Characteristics:

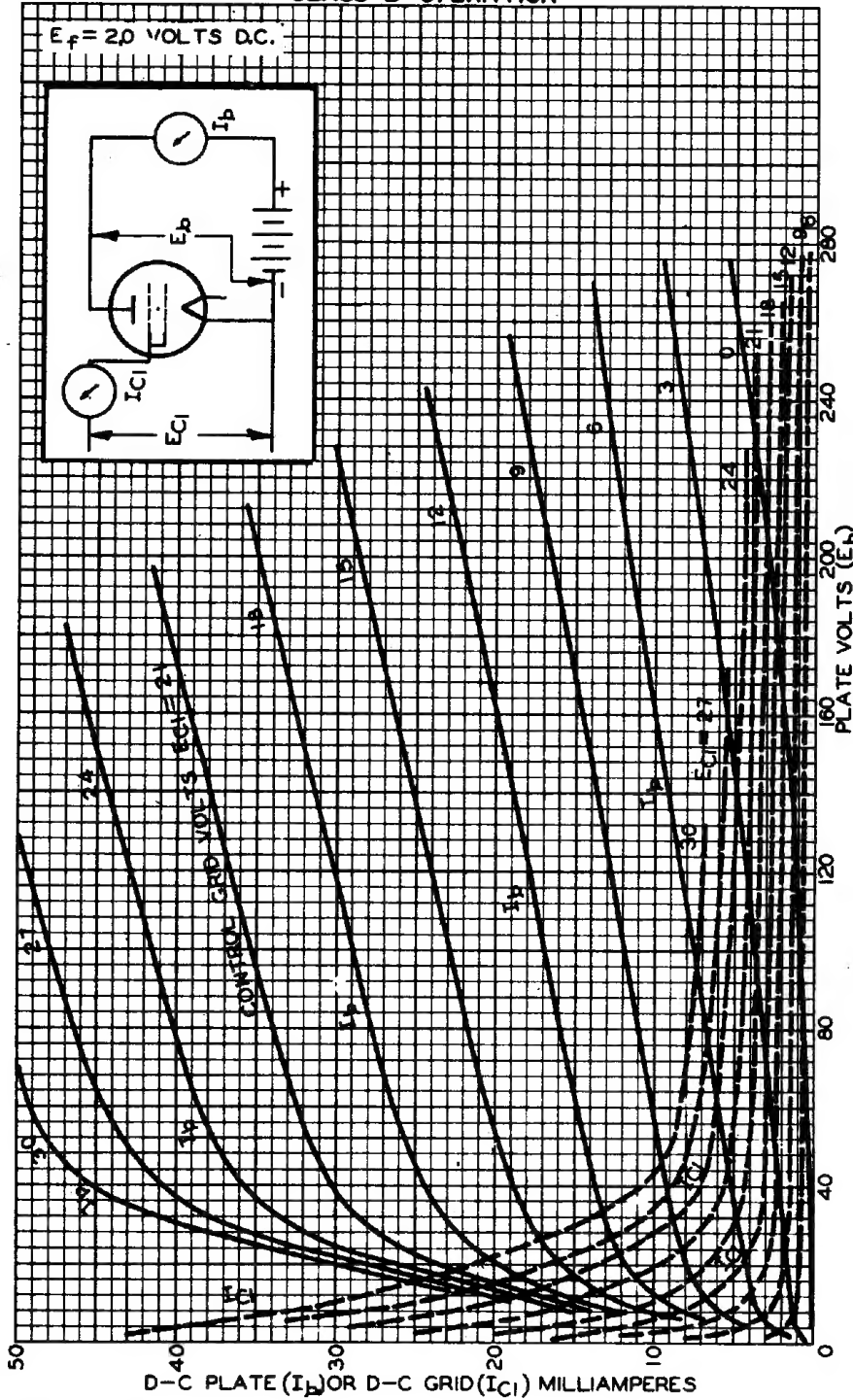
| | | |
|----------------|----------|--------------|
| Filament | 2.0 | volts |
| Plate | 135 max. | volts |
| Grid (#1 only) | -20 | volts |
| Amp. Fact. | 4.7 | |
| Plate Res. | 4175 | ohms |
| Mut. Cond. | 1125 | μmhos |
| Plate Cur. | 6.0 | ma. |
| Load Res. | 11000* | ohms |
| Power Output | 0.170 | approx.watts |

* Approximately twice this value is recommended for load of this tube when used as driver for Class B stage.

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Cunningham
Radiotron
RCA-49

AVERAGE PLATE CHARACTERISTICS
CLASS B OPERATION



OCT. 31, 1935

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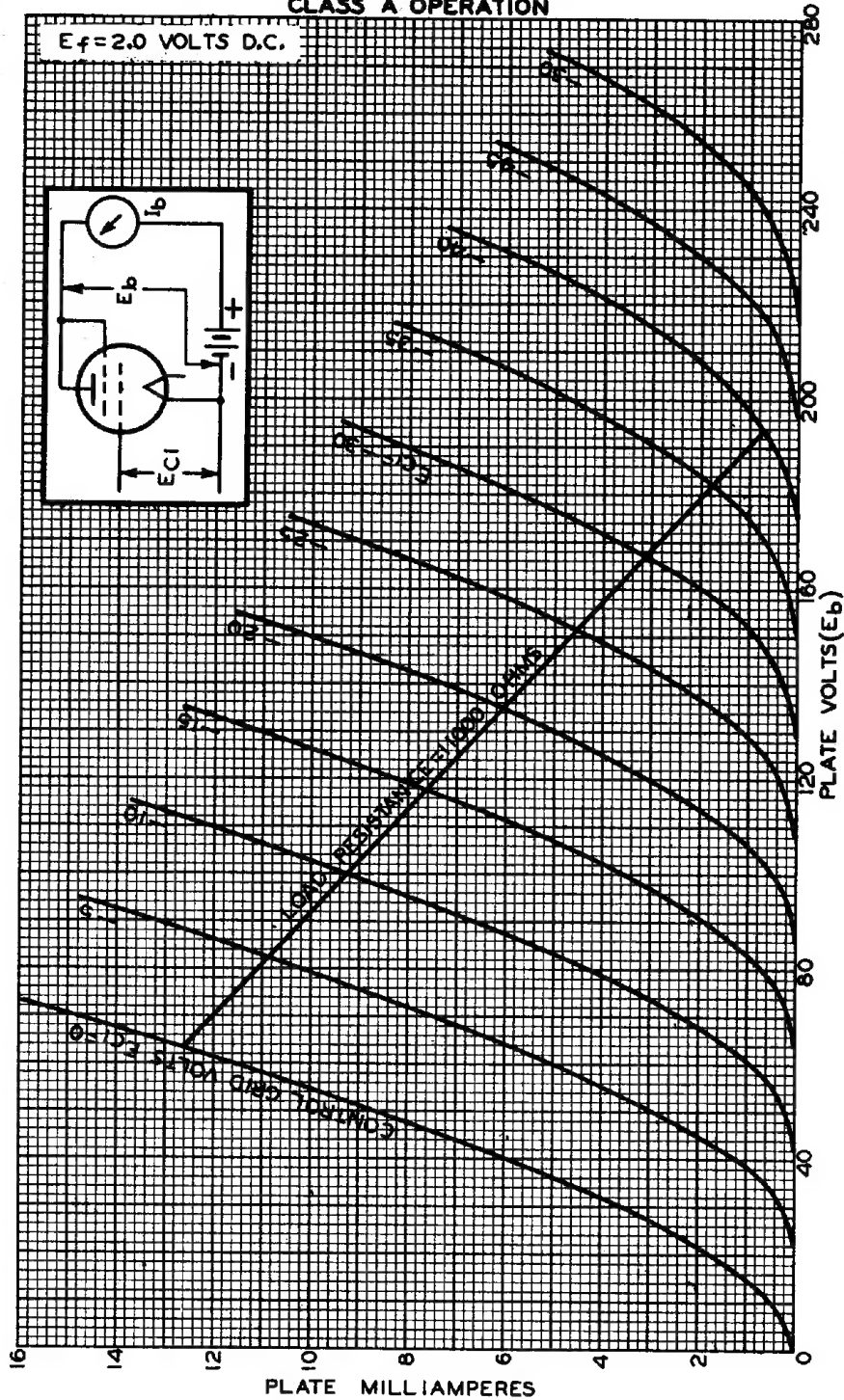
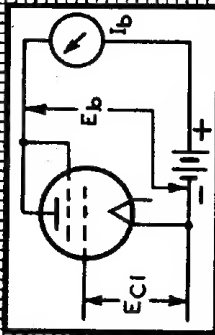
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AVERAGE PLATE CHARACTERISTICS CLASS A OPERATION

$E_f = 2.0$ VOLTS D.C.



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